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MICROMETHOD FOR DETERMINING TETRAETHYL LEAD IN ETHYL (LEAD) GASOLINES

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[A Digest]

The author concludes that the gravimetric microdetermination of tetraethyl lead proposed by him is more accurate than the standard molybdate method and c equivalent in accuracy to the standard rapid analysis method. Only 5-10 milliliters of the product are necessary to carry out the microanalysis, which can be accomplished entirely in a test tube with a negligible expenditure of reagents.

Gravimetric microanalysis can be completed in 20 minutes; it is therefore much more rapid than the molybdate method and even more time-saving than the standard rapid analysis method.

The method consists of: addition of bromine to the gasoline, separation of the precipitated bromine-lead compounds by centrifuging, conversion into lead nitrate by treatment with nitric acid, and weighing.

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